

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/BE2004/000177

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 7 B01D69/14 B01D61/02 B01D61/14				
According to International Patent Classification (IPC) or to both national classification and IPC				
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC 7 B01D C02F				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, COMPENDEX, INSPEC, CHEM ABS Data, PAJ				
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>				
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
A	VANKELECOM I.F.J., DEPRE D.,: "Influence of Zeolites in PDMS Membranes: Pervaporation of Water/Alcohol Mixtures" JOURNAL OF PHYSICAL CHEMISTRY, vol. 99, 7 March 1995 (1995-03-07), pages 13193-13197, XP002329263 abstract, page 1, paragraphs 1,2 page 2, lines 30-60 ----- -/--	1-14		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.				
<b>* Special categories of cited documents :</b> <table border="0"> <tr> <td> <b>*A*</b> document defining the general state of the art which is not considered to be of particular relevance  <b>*E*</b> earlier document but published on or after the international filing date  <b>*L*</b> document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  <b>*O*</b> document referring to an oral disclosure, use, exhibition or other means  <b>*P*</b> document published prior to the international filing date but later than the priority date claimed             </td> <td> <b>*T*</b> later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  <b>*X*</b> document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  <b>*Y*</b> document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  <b>*&amp;*</b> document member of the same patent family             </td> </tr> </table>			<b>*A*</b> document defining the general state of the art which is not considered to be of particular relevance <b>*E*</b> earlier document but published on or after the international filing date <b>*L*</b> document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) <b>*O*</b> document referring to an oral disclosure, use, exhibition or other means <b>*P*</b> document published prior to the international filing date but later than the priority date claimed	<b>*T*</b> later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention <b>*X*</b> document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone <b>*Y*</b> document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. <b>*&amp;*</b> document member of the same patent family
<b>*A*</b> document defining the general state of the art which is not considered to be of particular relevance <b>*E*</b> earlier document but published on or after the international filing date <b>*L*</b> document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) <b>*O*</b> document referring to an oral disclosure, use, exhibition or other means <b>*P*</b> document published prior to the international filing date but later than the priority date claimed	<b>*T*</b> later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention <b>*X*</b> document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone <b>*Y*</b> document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. <b>*&amp;*</b> document member of the same patent family			
Date of the actual completion of the international search 26 May 2005		Date of mailing of the international search report 06/06/2005		
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Lançon, E		

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>VANKELECOM I.F.J, SCHEPPERS E., HEUS R., UYTTERHOEVEN J.B.: "Parameters influencing zeolite incorporation in PDMS membranes" JOURNAL OF PHYSICAL CHEMISTRY, vol. 98, 11 July 1994 (1994-07-11), pages 12390-12396, XP002329264 abstract page 12395, lines 38,39 page 12390</p>	1-14
A	<p>WO 03/072232 A (CREAVIS GESELLSCHAFT FUER TECHNOLOGIE UND INNOVATION MBH; HENNIGE, VOL) 4 September 2003 (2003-09-04) abstract pages 4-5 pages 8,9 claims 9,10,12</p>	1-14
A	<p>PATENT ABSTRACTS OF JAPAN vol. 007, no. 195 (C-183), 25 August 1983 (1983-08-25) &amp; JP 58 095524 A (KURARAY KK), 7 June 1983 (1983-06-07) abstract</p>	
A	<p>CHEN X., ZHENGHUA P., YINGCAI L.: "Separation properties of alcohol-water mixture through silicalit-I-filled silicone rubber membranes by pervaporation" JOURNAL OF APPLIED POLYMER SCIENCE, vol. 67, 27 May 1997 (1997-05-27), pages 629-636, XP002329265 the whole document</p>	
A	<p>LEBLANC J.: "Elastomer-Filler Interactions and the Rheology of filled rubber compounds" JOURNAL OF APPLIED POLYMER SCIENCE, vol. 78, 2 May 2000 (2000-05-02), pages 1541-1550, XP002329266 the whole document</p>	1-14
A	<p>MULDER M.: "Basic Principles of Membrane Technology" 1990, KLUWER ACADEMIC , DORDRECHT , XP002329557 page 202 - page 220</p>	1

# INTERNATIONAL SEARCH REPORT

information on patent family members

In tional Application No  
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 03072232	A	04-09-2003	DE 10208278 A1 04-09-2003
		AU 2003248331 A1 09-09-2003	
		WO 03072232 A1 04-09-2003	
		EP 1483042 A1 08-12-2004	
		US 2005087491 A1 28-04-2005	
JP 58095524	A	07-06-1983	NONE